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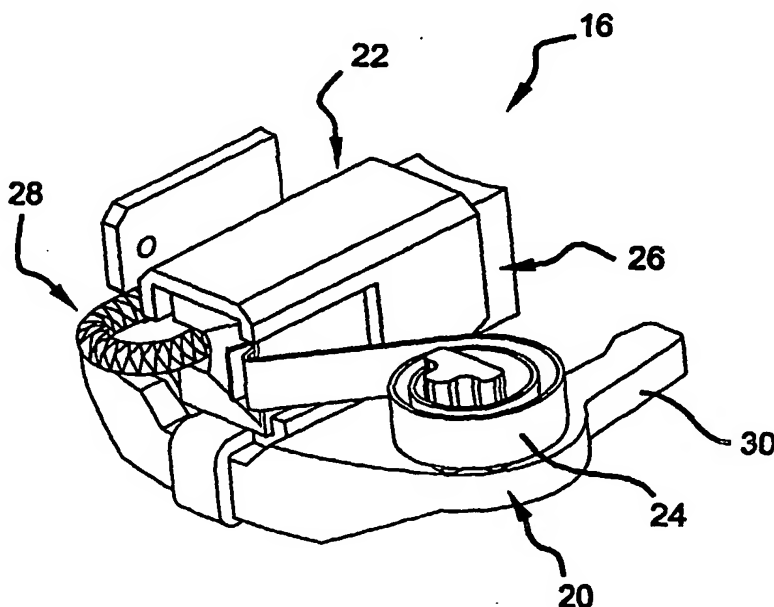
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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI,

[Continued on next page]

(54) Title: BRUSH ASSEMBLY



(57) Abstract: A brush assembly has a base with a member to secure the base to a motor end cap assembly. A brush housing is associated with the base. The brush housing includes first and second open ends. A brush, defining an axis, is slidably supported within the housing. The brush extends from one of the first and second open ends. The brush includes a surface with a spring retention plunger. The spring retention plunger defines an arcuate face angled relative to the axis. A biasing member exerts a force directly on the arcuate face to bias the brush into contact with a commutator. An electrical connection is made between the commutator and a power supply.



GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01R39/38 H02K5/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01R H02K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 031 313 A (SUGAI ET AL.) 29 February 2000 (2000-02-29) abstract column 5, line 4 -column 6, line 11 column 7, line 11-34; figures 1A-D, 3A-D ---	1,3,4,7, 10,11
A	EP 0 935 318 A (BLACK & DECKER INC.) 11 August 1999 (1999-08-11) abstract column 3, line 36 -column 4, line 6; figures 3,6 ---	1-7
A	US 5 907 207 A (POET ET AL.) 25 May 1999 (1999-05-25) column 3, line 1-28 column 3, line 65 -column 4, line 22; figures 1,3 --- -/--	1,4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 6 087 754 A (BERGER) 11 July 2000 (2000-07-11) abstract column 2, line 50-64 column 3, line 4-37; figures 3-5 ---	1,4
A	US 5 053 665 A (YAMAGUCHI ET AL.) 1 October 1991 (1991-10-01) column 1, line 11-39; figure 5 -----	1,4

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